

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
7 July 2005 (07.07.2005)

PCT

(10) International Publication Number
WO 2005/062140 A2

(51) International Patent Classification⁷: **G05B 19/00**

(21) International Application Number:
PCT/EP2004/014618

(22) International Filing Date:
22 December 2004 (22.12.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/532,013 22 December 2003 (22.12.2003) US

(71) Applicant (for all designated States except US): **VEGA GRIESHABER KG** [DE/DE]; Hauptstr. 1-5, 77709 Wolfach (DE).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **SCHAETZLE, Ralf** [DE/DE]; Eschau 5, 77716 Fischerbach (DE).

(74) Agent: **PREUSS, Udo**; Maiwald Patentanwalts GmbH, Elisenhof, Elisenstr. 3, 80335 München (DE).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

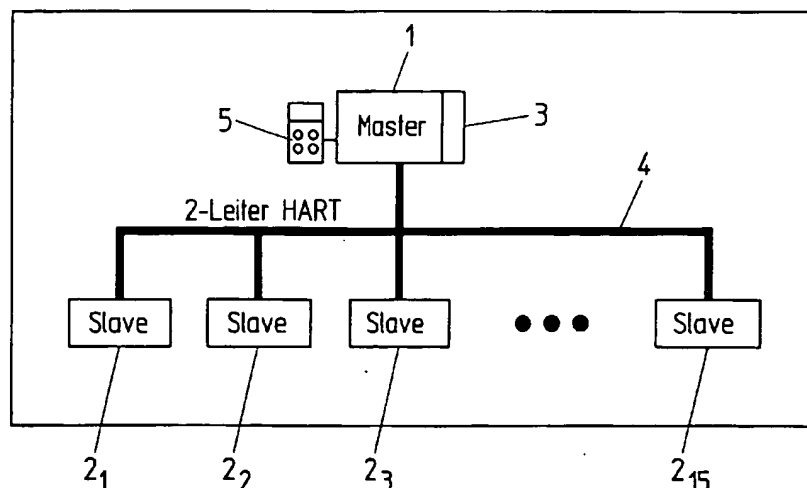
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: **METHOD AND SYSTEM FOR AUTOMATED CONFIGURING OF A HART MULTI-DROP SYSTEM**



(57) Abstract: The invention relates to a method of automatically configuring a HART multidrop system comprising a master device (1) and a plurality of slave devices (2₁, ... , 2₁₅) connected to said master device (1). The invention also relates to a HART multidrop system customized for the implementation of the method according to the present invention. The method according to the present invention has the following steps: a) connecting the slave devices (2₁, ... , 2₁₅) to the master device (1), b) switching on the power source (3) for the slave devices (2₁, ... , 2₁₅) in the master device (1); c) transmitting the HART command "Write polling address" as a broadcast command from the master device (1) with a polling address not equal to zero causing all slave devices (2₁, ... , 2₁₅) connected to the master device (1) to be automatically switched to the multidrop mode and all slave devices (2₁, ... , 2₁₅) to obtain an identical address not equal to zero, d) changing the addresses for all slave devices (2₁, ... , 2₁₅) from an identical address to a unique address for each slave device (2₁, ... , 2₁₅).